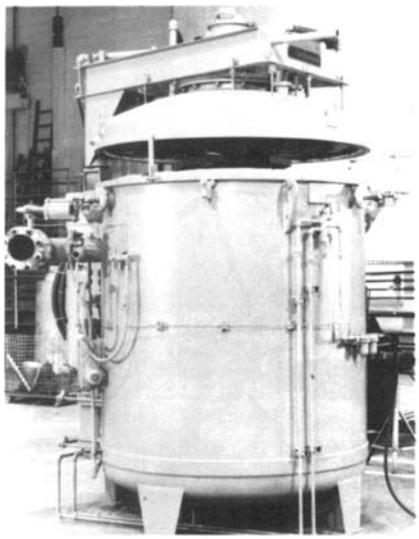
Lindberg Corp., Watertown, Wisconsin: ***New top-loading pit vacuum furnace produces clean, bright work without decarburization***; graphite heating elements for



Lindberg Corp.

maximum 1750 °F temperature; loads up to 6000 lb gross; vacuum level 10^{-2} μm at 1700 °F; power output 75 kW. Circle 79

Wall Colmonoy Corp., Madison Heights, Michigan: ***Stainless steel T-specimens test quality of furnace brazing conditions***; 304 stainless sheet-metal strip; use in any nonoxidizing, low-dewpoint furnace atmosphere (–40 °F/–40 °C, or drier), such as vacuum, pure dry hydrogen, dissociated ammonia, nitrogen, argon; indicate problems with base metal, brazing filler metal, atmosphere; targets occurrence; QC inspection inside furnace. Circle 80

Custom Electric Manufacturing Co., Detroit, Michigan: ***Electric heating elements handbook***; standard circuit/conversion formulas; complete technical/metallurgical information of variety of electric heating elements with operating temperatures from 200 to 3500 °F. Circle 81

Carbolite Furnaces, Watertown, Wisconsin: ***New, small-scale, sealed quench furnace cost-effective for low throughputs***; high-quality heat treating; 8 (H) × 11 (W) × 12 (D) in.; gastight liner 20 gal oil

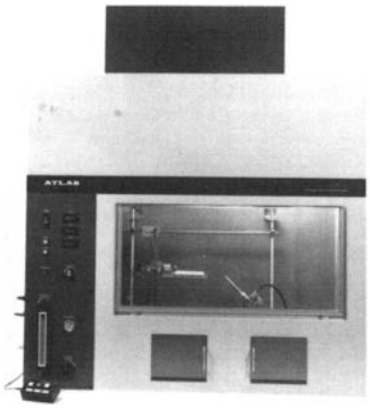
Carbolite Furnaces

quench tank; resistance wire elements give maximum temperature of 1100 °C; microprocessor controlled. Circle 82

Procedyne Corp., New Brunswick, New Jersey: ***New line of temperature indirect gas-fired process gas heaters, Slot Jet Process Gas Heaters, reach temperatures previously unavailable in compact units***; up to 1994 °F (1090 °C); ceramic baffle arrangement achieves heat transfer coefficients three to five times others; modular construction for increasing heat transfer area by adding sections; standard Inconel 601 on process gas side. Circle 83

Tocco, Boaz, Alabama: ***New heavy-duty, high-production induction scanner, TOCCOtrol® 350, for large parts***; gears, automotive/truck axle shafts, camshafts, turbine engine main shafts, related component; one, two, four spindles for scan hardening and lift/rotate operation; lengths up to 60 in.; single spindle 300 lb capacity; audio/radio frequency heating applications; piloted quick-change inductor simplify setup/operation. Circle 84

Atlas Electric Devices Co., Chicago, Illinois: ***New bench-top flame chamber, HVUL Horizontal Vertical Flame Chamber, meets all five UL 94 (flammability testing of plastic materials/parts) horizontal/vertical tests***; large volume, draft-free chamber; multi-axis specimen burning apparatus for unmatched accuracy in positioning parts for reproducible results; quick-release burner mounting for safe hand manipulation of nonrigid materials; meets variety of international tests, including ASTM D 635, 3802, 4804, 4986, 5048, and ISO 1210, 9772.3, 9773, and

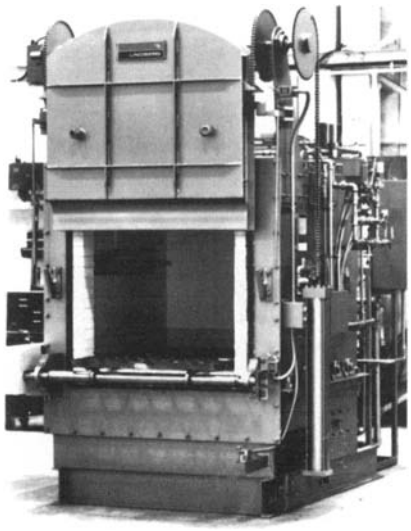


Atlas Electric Devices Co.

10351 IEC 707; variety of safety features are standard. Circle 85

Rath Performance Fibers, Inc., Wilmington, Delaware: ***New composite roof design, Composite Insulation Module, improves ultrahigh temperature furnace construction***; greater strength eliminates roof sagging at 1600 to 1800 °C; Kerasetter® structural board/ALTRA®KVS insulating board laminated with FIBERPLAST® moldable ceramic fiber; eliminates complex, costly alumina support rod suspension systems; easier design/construction. Circle 86

Lindberg, Watertown, Wisconsin: ***Furnace system burns-off polymers/organic***



Lindberg

components from metallic tooling; residual polymer reduced to easily disposed ash at just-below material critical flash point; exhaust afterburner eliminates toxic gases; 36 (W) × 48 (D) × 30 (H) in. work space; maximum operating temperature 1250 °F. Circle 87

Magnatech, Inc., Bettendorf, Louisiana: ***More powerful line frequency magnetic field heater, JH-100/250 Industrial Heater, treats large parts at shorter cycle times***; twice the power; larger core opening accommodates up to 250 mm (10 in.) (H) parts; JH-150/500 unit heats parts up to 18 in. (H); three-sided accessibility; designed for long, continuous operation. Circle 88

Lindberg

Lindberg, Watertown, Wisconsin: ***New atmosphere-control system Model 59013-3FM, provides semiautomatic control of gases in processing***; hydrogen process gas, a nitrogen purge gas, a 96% nitrogen/4% hydrogen forming gas; sequential push button/indicator light operation; two direct-reading adjustable flowmeters. Circle 89

Gammatronix, Inc., Dublin, Ohio: ***World's highest capacity/safest heat treating machine, Model 690M, provides controlled-current output to six separate computer-controlled zones for stress-relief application***; zones programmable up to 15 separate patterns/60 segments per pattern; overshoot suppression during temperature cycles; measurement accuracy of ±0.2%. Circle 90